

SEQUENCE LISTING

<110> McCarthy, Sean A.  
 Kuranda, Michael Joseph  
 Bulawa, Christine Ellen  
 Bossone, Steven

<120> METHOD FOR IDENTIFYING GENES ENCODING SIGNAL SEQUENCES

<130> 09404/032001

<140> US 08/966,269  
 <141> 1997-11-07

<160> 15

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (368)...(517)

<400> 1

ggggaccgtg ttttgtggccc ccaagccgtt gccccccatt ttggaactca gcgagtaggg	60
ggcggctctg ggaaagtggc agggggcgca gcagctgctg cctccacttc cctagccagg	120
tgctgaagag gatcttcgga gccgctctgg ccccccaggcg ctggatgact ggcaccagcg	180
ctcctcgac ctgtgttgggt gtgtgagact tgggctggag tgcccacgtg gctgtggagt	240
cagtgtgatt catgattgag gaaacgcgtc ctccatcctc tctctccttg gcactttcca	300
cacatgagga gaagaagagc ttctgttttag aagacacgtg cccagagtca gagggccctt	360
gcccacc atg aag gga acc tgt gtt ata gca tgg ctg ttc tca agc ctg	409
Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu	
1 5 10	

ggg ctg tgg aga ctc gcc cac cca gag gcc cag ggt acg act cag tgc	457
Gly Leu Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys	
15 20 25 30	

cag aga aca ctc gag gtg aat att gtt tcc ccc agc tcc aag gca aca	505
Gln Arg Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr	
35 40 45	

ttc agt cca agt	517
Phe Ser Pro Ser	
50	

<210> 2  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 2

Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu	
1 5 10 15	
Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg	
20 25 30	

Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser  
 35 40 45  
 Pro Ser  
 50

<210> 3  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (132)...(506)

<400> 3

ttcttcctag tttttttc ggcacaatat ttcaagttat accaaggata caatcaactc ccaagttggg atccgaattc ggcacgagcg gcacgagttg tgcttcggag accgttaagga tattgatgac c atg aga tcc ctg ctc aga acc ccc ttc ctg tgt ggc ctg Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu	60 120 170
1 5 10	

ctc tgg gcc ttt tgt gcc cca ggc gcc agg gct gag gag cct gca gcc Leu Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala 15 20 25	218
--	-----

agc ttc tcc caa ccc ggc agc atg ggc ctg gat aag aac aca gtg cac Ser Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His 30 35 40 45	266
---	-----

gac caa gag cat atc atg gag cat cta gaa ggt gtc atc aac aaa cca Asp Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro 50 55 60	314
--	-----

gag gcg gag atg tcg cca caa gaa ttg cag ctc cat tac ttc aaa atg Glu Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met 65 70 75	362
--	-----

cat gat tat gat ggc aat aat ttg ctt gat ggc tta gaa ctc tcc aca His Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr 80 85 90	410
--	-----

gcc atc act cat gtc cat aag gag gaa ggg agt gaa cag gca cca ctc Ala Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu 95 100 105	458
--	-----

gag gtg aat att gtt tcc ccc agc tcc aag gca aca ttc agt cca agt Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser 110 115 120 125	506
---	-----

<210> 4  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 4

Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala 1 5 10 15 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser 20 25 30 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu 35 40 45
--

His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu Ala Glu  
50 55 60  
Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr  
65 70 75 80  
Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr  
85 90 95  
His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Glu Val Asn  
100 105 110  
Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser  
115 120 125

<210> 5  
<211> 32  
<212> PRT  
<213> Mus musculus

<400> 5  
Met Lys Gly Ala Cys Ile Leu Ala Trp Leu Phe Ser Ser Leu Gly Val  
1 5 10 15  
Trp Arg Leu Ala Arg Pro Glu Thr Gln Asp Pro Ala Lys Cys Gln Arg  
20 25 30

<210> 6  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 6  
Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr  
1 5 10 15  
Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr  
20 25 30  
His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu  
35 40 45

<210> 7  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 7  
ctcgagctca gagaatcagc aactgtga

28

<210> 8  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 8  
agatcttcat actttctca tggatgttt cc

32

<210> 9  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<pre> &lt;220&gt; &lt;223&gt; primer  &lt;400&gt; 9 ctcgagggtga atattgttcc cccagctc </pre>	29
<pre> &lt;210&gt; 10 &lt;211&gt; 36 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; primer  &lt;400&gt; 10 ctcgagggtata atggtaata ttgtttcccc cagctc </pre>	36
<pre> &lt;210&gt; 11 &lt;211&gt; 16 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;221&gt; primer &lt;222&gt; (11)...(16) &lt;223&gt; where "n" at positions 11-16 is any one of A, T, G, or C  &lt;400&gt; 11 ctgactcgag nnnnnn </pre>	16
<pre> &lt;210&gt; 12 &lt;211&gt; 24 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; primer  &lt;400&gt; 12 gagcaacggat atacggcctt cctt </pre>	24
<pre> &lt;210&gt; 13 &lt;211&gt; 22 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; primer  &lt;400&gt; 13 gggatatgcc ccattatcca tc </pre>	22
<pre> &lt;210&gt; 14 &lt;211&gt; 32 &lt;212&gt; PRT &lt;213&gt; Homo sapiens  &lt;400&gt; 14 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu 1 5 10 15 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg 20 25 30 </pre>	

<210> 15  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 15  
Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala  
1 5 10 15  
Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser  
20 25 30  
Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu  
35 40 45  
His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Glu Ala Glu Met  
50 55 60  
Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp  
65 70 75 80  
Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His  
85 90 95  
Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu  
100 105